

1. FUTURE PROOFING THE BEEF VALUE CHAIN IN MATATIELE

1.1 Outcome:

Enhanced **futures planning and land-use decision making** for improved **sustainability and resilience** of the **grass-fed beef value chain** in the Matatiel area of the Umzimvubu Water Source Area in the Eastern Cape Province.

2. Objectives:

OB1: Provide an **overview of the grass-fed beef value chain**, and its **environmental impacts**, in the Materiel area of the Umzimvubu Water Source Area in the Eastern Cape, including impacts on:

- a. **Climate change, biodiversity and water resource** impacts of the value chain,
- b. **Commercial (formal) and small-scale farmers (informal), Agri-processors and retailers, and other key stakeholders** in the value chain
- c. **Socio-economic benefits of the value chain** (size of the sector, contribution to GDP, employment, livelihoods and food security),
- d. **Current/historical climate-related impacts on the value chain** (what was the impact of the 2015/18 drought?).

OB2: **Identify future climate change and socio-economic threats** to, and impacts on, the grass-fed beef value chain in the Eastern Cape in 2050, including:

- a. Biophysical climate change impacts, including on water availability and biodiversity, in 2050
- b. Exogenous transitional impacts¹, including consumer demand changes domestically and internationally,
- c. Socio-economic impacts of the biophysical and transition risks identified above.

OB3: **Identify scalable mitigation, adaptation and regenerative solutions**, and their respective barriers and enablers, to future climate change and socio-economic threats to the value chain, including:

- a. Climate change mitigation, adaptation and regenerative/circular solutions for improved supply chain sustainability and resilience,
- b. Barriers and enablers to solutions identified above,
- c. Environmental (climate, water and biodiversity) and socio-economic (GDP growth, employment, livelihood, food security) benefits and risks associated with potential solutions,

OB4: Develop a **framework for future proofing gras-fed beef value chains in other regions** and contexts.

OB5: Engage key stakeholders in the Matatiele area to strengthen research findings of OB1-4 and to promote uptake of scalable mitigation, adaptation and regenerative solutions across the grass-fed beef value chain in the Eastern Cape, including:

- a. Engage value chain stakeholders on research findings in OP1-3 below and obtain, where necessary, their inputs to strengthen the research findings (OB1-4),
- b. Host an in-person stakeholder workshop at the end of the project to share final research findings and to promote uptake of future solutions identified in the research by stakeholders.

3. **Outputs:**

OP1: Develop and publish a **Technical Research Report** with research findings on OB1-5.

OP2: Develop and publish a **Policy Brief** outlining policy gaps, barriers and enablers for scalable mitigation, adaptation and regenerative solutions (OB3), and relevant policy recommendations.

OP3: Develop and publish a **Business Case** focusing on one or two scalable mitigation, adaptation and regenerative solutions identified in OB3.

OP4: Stakeholder Workshop

OP5: Develop a **Stakeholder Engagement Report** detailing the various online and in-person engagements on OP1-4.

4. **Target audience:**

- i. Grass-fed beef value chain stakeholders, including local communities, formal and informal farmers, agricultural co-ops and industry associations, retailers and brand owners.
- ii. National, provincial and local government authorities.
- iii. Investment and finance institutions/actors.

Partners are

1. **Led by ISER – Rhodes University**
2. **Environmental Science - RU**
3. **ERS - Matatiele**
4. **Prof. Martin Gustafson – Stellenbosch**
5. **Humanities – Mandela University**
6. **Of course the people of Matatiele ?**